

Serial No. 10/821,062**Patent
20040-00013
(Previously 2097-3-23)****REMARKS**

Claims 2-5 are pending in the application. Claims 6-11 have been withdrawn from further consideration as being directed to non-elected invention. Support for the amended claims 2 and 4 can be found at page 7 in the specification and in claim 1 as originally presented. Accordingly, no new matter has been inserted into the application.

Election/Restrictions

Applicants note the Examiner's intention that when a restriction between products and processes have been made, applicant is offered rejoinder of all methods of making and methods of using a product whenever an elected product or composition claim is found allowable, as long as the method claims are commensurate in scope with the product claims.

Rejection Under 35 USC § 102(b) over Kim (US 2003/0045663 A1)

Claim 1 has been rejected under 35 U.S.C. §102(b) as being anticipated by Kim. Applicants traverse this rejection. Reconsideration and withdrawal thereof are respectfully requested.

However, in order to expedite the prosecution of the present application, claim 1 has been canceled. Accordingly, this rejection has been overcome.

Rejection Under 35 USC § 102(e) over Shinohara (US 2005/0042442 A1)

Claim 1 has been rejected under 35 U.S.C. §102(b) as being anticipated by Kim. Applicants traverse this rejection. Reconsideration and withdrawal thereof are respectfully requested.

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However, in order to expedite the prosecution of the present application, claim 1 has been canceled. Accordingly, this rejection has been overcome.

Rejection Under 35 USC § 103(a) over Yasunori (JP 05-307,104) in view of Fujimaki (US 6,191,837 B1)

Claims 1-5 have been rejected as being obvious over Yasunori in view of Fujimaki. Applicants traverse this rejection. Reconsideration and withdrawal thereof are respectfully requested.

The Presently Claimed Invention

The presently claimed invention is directed to an antireflection film comprising a substrate consisting of a transparent polymer film and at least one conductive polymer layer formed by depositing a heterocyclic conjugated polymer on at least one surface of the substrate. The inventive antireflection film also comprises a thin film layer having a higher refractive index than the conductive layer between the transparent polymer film and the conductive layer. The inventive antireflection film may also comprise a thin film layer having a lower refractive index than the conductive layer on at least one surface of the transparent polymer film.

Yasunori

The Yasunori reference discloses an antireflection filter to suppress reflection of the external light for planar displays, of which the antireflection layer is formed by a hardened film on top of a transparent plastic film or sheet. However, Yasunori fails to disclose or suggest an antireflection film comprising at least one conductive polymer layer as in the presently claimed invention.

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The Fujimaki reference discloses a liquid crystal display (LCD) comprising a first substrate having an outside surface and an inside surface, a second substrate having an outside surface and an inside surface facing the inside surface of the first substrate, and a liquid crystal composition sandwiched between the first and second substrates. However, Fujimaki fails to disclose or suggest an antireflection film comprising at least one conductive polymer layer as in the presently claimed invention.

Distinctions of the presently claimed invention over the cited references

The Examiner has failed to establish *prima facie* obviousness of the presently claimed invention. There fails to be motivation to combine the cited references to arrive at the presently claimed invention as none of the cited references in combination or independently discloses or suggests an antireflection film comprising a substrate consisting of a transparent polymer film and at least one conductive polymer layer formed by depositing a heterocyclic conjugated polymer on at least one surface of the substrate as in the presently claimed invention.

The Yasunori reference fails to be relevant to the presently claimed invention because Yasunori discloses merely an antireflection filter comprising antireflection layer, hardened film, and transparent plastic film. Moreover, Yasunori fails to disclose or suggest an antireflection film comprising conductive polymer layer, refractive thin film layer, and substrate as in the presently claimed invention. In particular, in the presently claimed invention, the conductive polymer layer is stacked by vapor phase polymerization and provides the inventive antireflection film anti-static and electromagnetic shielding properties. However, Yasunori fails to disclose or suggest using a conductive polymer layer for their antireflection filter.

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The Fujimaki reference fails to remedy the deficiencies in the Yasunori reference in failing to disclose or suggest an antireflection film comprising conductive polymer layer, refractive thin film layer, and substrate as in the presently claimed invention because Fujimaki discloses merely a LCD comprising two substrates having electroconductive films on the inside surfaces and liquid crystal sandwiched between the substrates. Therefore, Fujimaki is not applicable to the presently claimed invention. Accordingly, the presently claimed invention is not obvious over the cited references.

Double Patenting

Claim 1 has been rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 16 of U.S. Patent No. 6,664,355 B2 in view of Hani et al. (U.S. Patent No. 5,334,424). Applicants traverse this rejection. Reconsideration and withdrawal thereof are respectfully requested.

However, in order to expedite the prosecution of the present application, claim 1 has been canceled. Accordingly, this rejection has been overcome.

Rejoinder of Claims

The Examiner is respectfully requested to rejoin the process claims 6-11 to the product claims 2-5 once these claims are found to be allowable in accordance with the Rejoinder Rules under MPEP 821.04.

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It is believed that the application is now in condition for allowance. Applicant requests the Examiner to issue a Notice of Allowance in due course. The Examiner is encouraged to contact the undersigned to further the prosecution of the present invention.

The Commissioner is authorized to charge JHK Law's Deposit Account No. 502486 for any fees required under 37 CFR §§ 1.16 and 1.17 and to credit any overpayment to said Deposit Account No. 502486.

Respectfully submitted,

JHK Law

Dated: February 1, 2006

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